

FILEID**DATA1

M 2

MAC
V04

DDDDDDDD DDDDDDDDD DD AA AA TT TT TT TT TT TT
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DD DD AA AA TT TT AA AA 11 11
DDDDDDDD DDDDDDDDD AA AA AA TT AA AA 111111
DDDDDDDD DDDDDDDDD AA AA AA TT AA AA 111111

LL I II II SSSSSSSS
LL I II SS SSSSSSSS
LLLLLLLLLL LLLL LLLL SSSSSSSS
LLLLLLLLLL LLLL LLLL SSSSSSSS

MAC\$DATA1
Table of contents

(2) 93 DATA STORAGE

N 2

16-SEP-1984 01:52:47 VAX/VMS Macro V04-00

Page 0

MAC
V04

0000 1 .TITLE MAC\$DATA1
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
0000 7 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 8 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 9 * ALL RIGHTS RESERVED.
0000 10 *
0000 11 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 12 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 13 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 14 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 15 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 16 * TRANSFERRED.
0000 17 *
0000 18 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 19 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 20 * CORPORATION.
0000 21 *
0000 22 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 *
0000 25 *
0000 26 *****
0000 27 :
0000 28 :
0000 29 :++
0000 30 : FACILITY: VAX MACRO ASSEMBLER OBJECT LIBRARY
0000 31 :
0000 32 : ABSTRACT:
0000 33 :
0000 34 : The VAX-11 MACRO assembler translates MACRO-32 source code into object
0000 35 : modules for input to the VAX-11 LINKER.
0000 36 :
0000 37 : ENVIRONMENT: USER MODE
0000 38 :
0000 39 : AUTHOR: Benn Schreiber, CREATION DATE: 30-AUG-78
0000 40 :
0000 41 : MODIFIED BY:
0000 42 :
0000 43 : V03-03 MCN0171 Maria del C. Nasr 12-Jun-1984
0000 44 : Change version number to 4-00.
0000 45 :
0000 46 : V03-02 MTR0025 Mike Rhodes 8-Feb-1983
0000 47 : Remove imbedded carriage control from FAO control
0000 48 : strings, creating individual records where required.
0000 49 : Advance the identification to 3-01.
0000 50 :
0000 51 : V03-01 MTR0012 Mike Rhodes 22-Mar-1982
0000 52 : Change version number format to be compatible
0000 53 : with other facilities. 3-00.
0000 54 :
0000 55 : V03.00 MTR0002 Mike Rhodes 15-Mar-1982
0000 56 : Advanced the identification version number to 3.00.
0000 57 :

0000 58 : V02.26 CNH0045 Chris Hume 1-Dec-1980
0000 59 : Increased size of parser value stack. Stack overflow remains
0000 60 : undetected. Also advanced displayed IDENT to 2.46.
0000 61 : (DATA.MAR 02.22, MAIN.MAR 02.46)
0000 62 :
0000 63 : V01.25 RN0029 R. Newland 18-Feb-1980
0000 64 : Update version number to V02.42.
0000 65 :
0000 66 : V01.24 RN0026 R. Newland 16-Jan-1980
0000 67 : Update version number.
0000 68 :
0000 69 : V01.23 RN0022 R. Newland 31-Oct-1979
0000 70 : Translate SYSSLP_LINES to set lines/page
0000 71 :
0000 72 : V01.22 RN0019 R. Newland 30-Oct-1979
0000 73 : Improve error pointer positioning.
0000 74 :
0000 75 : V01.21 RN0014 R. Newland 10-Oct-1979
0000 76 : Support for G_floating, H_floating and Octaword data types
0000 77 :
0000 78 : V01.20 RN0011 R. Newland 11-Sep-1979
0000 79 : New librarian support
0000 80 :
0000 81 : V01.19 RN0008 R. Newland 29-Aug-1979
0000 82 : 31 character PSECT names
0000 83 :
0000 84 : V01.18 RN0002 R. Newland 01-Feb-1979
0000 85 : Changes for Source Update Merge
0000 86 :--
0000 87 :
0000 88 : \$MAC_CREFLAGDEF ;DEFINE CREF CONTROL FLAGS
0000 89 : \$MAC_CTLFLGDEF ; Control flags
0000 90 :
00000000 91 .PSECT MAC\$RO_DATA,NOWRT,NOEXE,GBL,LONG

DATA STORAGE

	0000	93	.SBTTL DATA STORAGE	MA
	0000	94		MA
2E 4E 49 41 4D 2E 00' 06	0000	95	MAC\$AB_DEF_TITL::	MA
	0000	96	.ASCIC /.MAIN./	MA
	0000	97		MA
63 61 4D 20 53 4D 56 2F 58 41 56 00' 30 30 2D 34 30 56 20 6F 72 14	0007	98	MAC\$AB_VERSION::	MA
	0007	99	.ASCIC \VAX/VMS Macro V04-00\	MA
	0013		;VAX-11 MACRO VERSION STRING	MA
	0007	100		MA
6F 63 20 66 6F 20 65 6C 62 61 54 00' 73 74 6E 65 74 6E 11	001C	101	MAC\$AB_TOC_MSG::	OP1
	001C	102	.ASCIC /Table of contents/	OP1
	0028			OP1
	001C	103		SYI
6C 62 61 74 20 6C 6F 62 6D 79 53 00' 65 0C	002E	104	MAC\$AB_STB_MSG::	X1
	002E	105	.ASCIC /Symbol table/	X2
	003A			
	002E	106		
72 63 61 4D 20 31 31 2D 58 41 56 00' 73 69 74 61 74 53 20 6E 75 52 20 6F 73 63 69 74 1B	003B	107	MAC\$AB_RNT_MSG::	PSI
	003B	108	.ASCIC /VAX-11 Macro Run Statistics/	---
	0047			MA
	0053	109		
72 65 66 65 72 20 73 73 6F 72 43 00' 65 63 6E 65 OF	0057	110	MAC\$AB_CRF_MSG::	Ph:
	0057	111	.ASCIC /Cross reference/	---
	0063			In
	0057	112		Co
2B 20 2A 35 34 21 0000006F'010E0000' 2B 2D 2A 34 32 21	0067	113	MAC\$AB_CRF_HDR::	Pa
	0067	114	.ASCID \!45* +!24*-+!	Sy
21 20 2A 35 34 21 00000083'010E0000' 6F 72 43 20 6C 6F 62 6D 79 53 20 21	007B	115	MAC\$AB_CRF_HDRA::	Pa
65 63 6E 65 72 65 66 65 52 20 73 73 21 21 20	0089	116	.ASCID \!45* !! Symbol Cross Reference !!\	Sy
	0095			Ps
2B 20 2A 35 34 21 000000AC'010E0000' 2B 2D 2A 34 32 21	00A1	117	MAC\$AB_CRF_HDRB::	Cri
	00A4	118	.ASCID \!45* +!24*-+!	As
	0082	119		The
	0088	120	MAC\$AB_CRF_HDR1::	21'
59 53 3C 35 31 21 000000C0'010E0000' 41 56 3C 38 21 20 3E 21 4C 4F 42 4D 34 31 21 20 2A 35 21 3E 21 45 55 4C 21 4E 4F 49 54 49 4E 49 46 45 44 3C 45 46 45 52 3C 34 31 21 20 2A 32 21 3E 21 2E 2E 2E 53 45 43 4E 45 52	0088	121	.ASCID \!15<SYMBOL!> !8<VALUE!>!5* !14<DEFINITION!>\-	Th
	0088			46
	00C6	122	\!2* !14<REFERENCES...!>\	1
	00D2	123	MAC\$AB_CRF_HDR1A::	
36 21 3C 35 31 21 0000010A'010E0000' 2D 2A 35 21 3C 38 21 20 3E 21 2D 2A 31 21 3C 34 31 21 20 2A 35 21 3E 21 3E 21 2D 2A 30	0102	124	.ASCID \!15<!6*-!> !8<!5*-!>!5* !14<!10*-!>\-	
	0110			
	011C			
	0128			

2A 33 31 21 3C 34 31 21 20 2A 32 21 012D 125 \!2* !14<!13*-!>\
 3E 21 2D 0139
 013C 126
 013C 127 MAC\$AB_CRF HD1W::
 128 .ASCID \!31<SYMBOL!> !8<VALUE!>!5* !14<DEFINITION!>\-
 41 56 3C 38 21 20 3E 21 4C 4F 42 4D 014A
 34 31 21 20 2A 35 21 3E 21 45 55 4C 0156
 21 4E 4F 49 54 49 4E 49 46 45 44 3C 0162
 3E 016E
 45 46 45 52 3C 34 31 21 20 2A 32 21 016F 129 \!2* !14<REFERENCES...!>\
 3E 21 2E 2E 53 45 43 4E 45 52 0178
 0186 130 MAC\$AB_CRF HD1WA::
 131 .ASCID \!31<!6*-!> !8<!5*-!>!5* !14<!10*-!>\-
 36 21 3C 31 33 21 0000018E'010E0000' 0186
 2D 2A 35 21 3C 38 21 20 3E 21 2D 2A 0194
 31 21 3C 34 31 21 20 2A 35 21 3E 21 01A0
 3E 21 2D 2A 30 01AC
 2A 33 31 21 3C 34 31 21 20 2A 32 21 01B1 132 \!2* !14<!13*-!>\
 3E 21 2D 01BD
 01C0
 01C0 134 MAC\$AB_CRF HDM::
 135 .ASCID \!45* +!24*-+!
 21 20 2A 35 34 21 000001C8'010E0000' 01C0
 6F 72 43 20 73 6F 72 63 61 4D 20 21 01CE
 65 63 6E 65 72 65 66 65 52 20 73 73 01D4
 21 21 20 01FA
 2B 20 2A 35 34 21 00000205'010E0000' 01FD 138 MAC\$AB_CRF HDMB::
 2B 2D 2A 34 32 21 020B
 0211 140
 0211 141 MAC\$AB_CRF HD2::
 142 .ASCID \!15<MACRO!>!3* !8<SIZE!>!6* !14<DEFINITION!>\-
 41 4D 3C 35 31 21 00000219'010E0000' 0211
 3C 38 21 20 2A 33 21 3E 21 4F 52 43 021F
 31 21 20 2A 36 21 3E 21 45 5A 49 53 022B
 4E 4F 49 54 49 4E 49 46 45 44 3C 34 0237
 3E 21 2D 2A 30 31 21 3C 34 0243
 45 46 45 52 3C 34 31 21 20 2A 33 21 0245
 3E 21 2E 2E 53 45 43 4E 45 52 0251
 025C 143 \!3* !14<REFERENCES...!>\
 35 21 3C 35 31 21 00000264'010E0000' 025C 144 MAC\$AB_CRF HD2A::
 21 3C 38 21 20 2A 33 21 3E 21 2D 2A 026A
 34 31 21 20 2A 36 21 3E 21 2D 2A 34 0276
 3E 21 2D 2A 30 31 21 3C 34 0282
 2A 33 31 21 3C 34 31 21 20 2A 33 21 028A
 3E 21 2D 0296
 0299 146 \!3* !14<!13*-!>\
 0299 147
 0299 148 MAC\$AB_CRF HD2W::
 149 .ASCID \!31<MACRO!>!3* !8<SIZE!>!6* !14<DEFINITION!>\-
 41 4D 3C 31 33 21 000002A1'010E0000' 0299
 3C 38 21 20 2A 33 21 3E 21 4F 52 43 02A7
 31 21 20 2A 36 21 3E 21 45 5A 49 53 02B3
 4E 4F 49 54 49 4E 49 46 45 44 3C 34 02BF
 3E 21 2D 02CB
 45 46 45 52 3C 34 31 21 20 2A 33 21 02CD
 3E 21 2E 2E 53 45 43 4E 45 52 02D9
 02E4 150 \!3* !14<REFERENCES...!>\
 35 21 3C 31 33 21 000002EC'010E0C00' 02E4 151 MAC\$AB_CRF HD2WA::
 02E4 .ASCID \!31<!5*-!>!3* !8<!4*-!>!6* !14<!10*-!>\-

21 3C 38 21 20 2A 33 21 3E 21 2D 2A 02F2
 34 31 21 20 2A 36 21 3E 21 2D 2A 34 02FE
 2A 33 31 21 3C 34 31 21 20 2A 33 21 0312
 3E 21 2D 2A 30 31 21 3C 031E
 153 \!3* .14<!13*-!>\

2B 20 2A 35 34 21 00000329'010E0000' 0321
 2B 20 2A 34 32 21 0321
 154 155 MAC\$AB_CRF_HDO::
 156 .ASCID \!45* +!24*-+\
 21 20 2A 35 34 21 0000033D'010E0000' 0335
 6F 72 43 20 65 64 6F 63 70 4F 20 21 0343
 65 63 6E 65 72 65 66 65 52 20 73 73 034F
 21 21 20 035B
 2B 20 2A 35 34 21 00000366'010E0000' 035E
 2B 2D 2A 34 32 21 035E
 161 162 MAC\$AB_CRF_HD3::
 163 .ASCID \!15<OPCODE!>!5<VALUE!>!5* !14<REFERENCES...!>\

50 4F 3C 35 31 21 0000037A'010E0000' 0372
 4C 41 56 3C 35 21 3E 21 45 44 4F 43 0380
 3C 34 31 21 20 2A 35 21 3E 21 45 55 038C
 2E 2E 53 45 43 4E 45 52 45 46 45 52 0398
 3E 21 2E 03A4
 36 21 3C 35 31 21 000003AF'010E0000' 03A7
 21 2D 2A 35 21 3C 35 21 3E 21 2D 2A 03B5
 33 31 21 3C 34 31 21 20 2A 35 21 3E 03C1
 3E 21 2D 2A 03CD
 166 167 MAC\$AB_CRF_HDD::
 168 .ASCID \!43* +!28*-+\
 21 20 2A 33 34 21 000003D9'010E0000' 03D1
 2B 2D 2A 38 32 21 03DF
 169 170 MAC\$AB_CRF_HDDA::
 .ASCID \!43* !! Directives Cross Reference !!!

2B 20 2A 33 34 21 000004'A'010E0000' 0412
 2B 2D 2A 38 32 21 0412
 172 173 MAC\$AB_CRF_HD4::
 .ASCID \!43* +!28*-+\
 49 44 3C 35 31 21 0000042E'010E0000' 0426
 34 31 21 3E 21 45 56 49 54 43 45 52 0426
 2E 53 45 43 4E 45 52 45 46 45 52 3L 0440
 3E 21 2E 2E 044C
 39 21 3C 35 31 21 00000458'010E0000' 0450
 2A 33 31 21 3C 34 31 21 3E 21 2D 2A 045E
 3E 21 2D 046A
 178 179 MAC\$AB_CRF_HD4A::
 .ASCID \!15<!9*-!>!14<!13*-!>\

2B 20 2A 34 34 21 00000475'010E0000' 046D
 2B 2D 2A 36 32 21 047B
 180 181 MAC\$AB_CRF_HDG::
 .ASCID \!44* +!26*-+\
 21 20 2A 34 34 21 00000489'010E0000' 0481
 182 183 MAC\$AB_CRF_HDGA::
 .ASCID \!44* !! Register Cross Reference !!!

MAC\$DATA1
V04-000

DATA STORAGE

43 20 72 65 74 73 69 67 65 52 20 21 048F
 6E 65 72 65 66 65 52 20 73 73 6F 72 049B
 21 21 20 65 62 04A7

2B 20 2A 34 34 21 000004B4'010E0000'
 2B 2D 2A 36 32 21 04AC
 04AC .ASCID \"!44* +!26*-+\"

183 MAC\$AB_CRF HDGB::
 184 .ASCID \"!10<REGISTER!>!14<NO. REFERENCES!>!5* !14<REFERENCES...!>\\"

185
 186 MAC\$AB_CRF HD5::
 187 .ASCID \"!10<REGISTER!>!14<NO. REFERENCES!>!5* !14<REFERENCES...!>\\"

45 52 3C 30 31 21 000004C8'010E0000'
 3C 34 31 21 3E 21 52 45 54 53 49 47 04C0
 43 4E 45 52 45 46 45 52 20 2E 4F 4E 04CE
 3C 34 31 21 20 2A 35 21 3E 21 53 45 04DA
 2E 2E 53 45 43 4E 45 52 45 46 45 52 04E6
 3E 21 2E 04F2
 04FE

38 21 3C 30 31 21 00000509'010E0000'
 2A 34 31 21 3C 34 31 21 3E 21 2D 2A 0501
 21 3C 34 31 21 20 2A 35 21 3E 21 2D 050F
 3E 21 2D 2A 33 31 051B
 0527

2B 20 2A 35 34 21 00000535'010E0000'
 2B 2D 2A 34 32 21 052D

21 20 2A 35 34 21 00000549'010E0000'
 63 6E 61 60 72 6F 66 72 65 50 20 21 0541
 73 72 6F 74 61 63 69 64 6E 69 20 65 054F
 21 21 20 055B
 0567

2B 20 2A 35 34 21 00000572'010E0000'
 2B 2D 2A 34 32 21 056A

68 50 3C 35 32 21 00000586'010E0000'
 67 61 50 3C 35 31 21 3E 21 65 73 61 057E
 31 21 3E 21 73 74 6C 75 61 66 20 65 058C
 3E 21 65 60 69 54 20 55 50 43 3C 35 0598
 20 64 65 73 70 61 6C 45 3C 35 31 21 05A4
 3E 21 65 6D 69 54 05B0
 05BC

35 21 3C 35 32 21 000005CA'010E0000'
 2A 31 31 21 3C 35 31 21 3E 21 2D 2A 05C2
 21 2D 2A 38 21 3C 35 31 21 3E 21 2D 05D0
 3E 21 2D 2A 32 31 21 3C 35 31 21 3E 05DC
 05E8

2B 20 2A 34 34 21 000005FC'010E0000'
 2B 2D 2A 36 32 21 05F4

21 20 2A 34 34 21 00000610'010E0000'
 72 62 69 6C 20 6F 72 63 61 4D 20 21 0608
 69 74 73 69 74 61 74 73 20 79 72 61 0616
 21 21 20 73 63 0622
 062E

2B 20 2A 34 34 21 0000063B'010E0000'
 2B 2D 2A 36 32 21 0633

207 MAC\$AB_MLB HDRB::
 208 .ASCID \"!44* +!26*-+\"

209

DATA STORAGE

0647 210 MAC\$AB_MLB HD2::
 0647 .ASCID \!45<Macro library name!\>-
 0655
 0661
 0667 212 \!20<Macros defined!\>-
 0673 213 MAC\$AB_MLB HD2A::
 0678 214 .ASCID \!45<!18*-!>\-
 0689 215 \!20<!14*-!>\-
 0699 216
 0699 217 MAC\$AB_MLB FAO::
 06A7 218 .ASCID \!45<!AS!>!12SL:8* \-
 06B3 219
 06B3 220 MAC\$AB_MLB TOT::
 06C1 221 .ASCID /TOTALS (all libraries)/
 06CD
 06D1 222
 06D1 223 MAC\$AB_MLB SUM::
 06DF 224 .ASCID \!SL GET!%S !AC required to define !SL macros.\-
 06EB
 06F7
 0703
 0706
 0706 225
 0714 226 MAC\$AB_FAO_TIM::
 0720 227 .ASCID \!25<!AC!>!10SL!5* !2ZL:!2ZL:!2ZL!2ZL!4* !%T\-\-
 072C
 0738
 073A
 073A 228
 0746 229 MAC\$AB_PSS_MSG::
 073A 230 .ASCID /Psect synopsis/
 0749
 0749 231
 0749 232 MAC\$AB_PSC_HDR::
 0757 233 .ASCID \!48* +!16*-+\-
 075D 234 MAC\$AB_PSC_HDRA::
 076B 235 .ASCID \!48* !! Psect synopsis !!\-
 0777
 077E 236 MAC\$AB_PSC_HDRB::
 078C 237 .ASCID \!48* +!16*-+\-
 0792
 0792 238
 0792 239 MAC\$AB_PSC_HD2::
 07A0 240 .ASCID \!31<PSECT name!\>!1* !18<Allocation!\>!2* \-
 07AC
 07B8
 07C2
 07CE 241 \!9<PSECT No.!>!2* !15<Attributes!\>\-

```
242 MAC$AB_PSC HD2A::  
243 .ASCID \!31<!10*-!>!1* !18<!10*-!>!2* \-  
  
244 !9<!9*-!>!2* !15<!10*-!>\  
  
245  
246 MAC$AB_LPG_FMT::  
247 .ASCID \!14<!5SL!#*.!#(SL) (!SL)!> \  
  
248  
249 MAC$AB_PSS_FA0::  
250 .ASCID \!31<!AC!>!9XL (!5SL.) !2XB (!3SL.) \  
  
251  
252 MAC$AB_WAS_MSG::  
253 .ASCIIC /was/  
  
254  
255 MAC$AB_WERE_MG::  
256 .ASCIIC /were/  
  
257  
258 MAC$AB_NOERRM::  
259 .ASCID \There were no errors, warnings or information messages.\  
  
260  
261 MAC$AB_ERRM::  
262 .ASCID \There were !SL error!%S, !SL warning!%S and \ -  
  
263 !SL information message!%S, on lines:\  
  
264 MAC$AB_WSL_FA0::  
265 .ASCID \The working set limit was !SL pages.\  
  
266  
267 MAC$AB_IFP_FA0::  
268 .ASCID \!SL bytes (!SL page!%S) of virtual memory\-\  
  
269 \ were used to buffer the intermediate code.\
```

65	68	74	20	72	65	66	66	75	62	20	6F	097D	
74	61	69	64	65	6D	72	65	74	6E	69	20	0989	
					2E	65	64	6F	63	20	65	0995	
												099C	
20	65	72	65	68	54	000009A4	'010E0000'					099C	
65	67	61	70	20	4C	53	21	20	43	41	21	09AA	
6F	62	60	79	73	20	66	6F	20	53	25	21	09B6	
63	61	70	73	20	65	6C	62	61	74	20	6C	09C2	
64	65	74	61	63	6F	6C	6C	61	20	65		09CE	
4C	53	21	20	64	6C	6F	68	20	6F	74	20	09D9	
61	20	6C	61	63	6F	6C	2D	6E	6F	6E	20	09E5	
6C	61	63	6F	6C	20	4C	53	21	20	64	6E	09F1	
					2F	73	6C	6F	62	6D	79	73	20
												09FD	
												0A06	
6F	73	20	4C	53	21	00000A0E	'010E0000'					0A06	
53	25	21	65	6E	69	6C	20	65	63	72	75	0A14	
6E	69	20	64	61	65	72	20	43	41	21	20	0A20	
6F	72	70	20	2C	31	20	73	73	61	50	20	0A2C	
							67	6E	69	63	75	0A38	
20	74	63	65	6A	62	6F	20	4C	53	21	20	0A3E	
6E	69	20	53	25	21	64	72	6F	63	65	72	0A4A	
					2E	32	20	73	73	61	50	20	
												0A56	
												0A5E	
61	70	20	4C	53	21	00000A66	'010E0000'					0A5E	
72	69	76	20	66	6F	20	53	25	21	65	67	0A6C	
20	79	72	6F	6D	65	6D	20	6C	61	75	74	0A78	
20	6F	74	20	64	65	73	75	20	43	41	21	0A84	
							20	65	6E	69	66	0A90	
53	25	21	6F	72	63	61	6D	20	4C	53	21	0A97	
					2E							0AA3	
												0AA4	
44	41	21	00000AAC	'010E0000'								0AA4	
												0AAF	
												0AAF	
												0AAF	
												0AAF	
74	61	7A	69	6C	61	69	74	69	6E	49	00	0AAF	
							6E	6F	69			0ABB	
								0E				0AAF	
												0ABE	
6F	72	70	20	64	6E	61	6D	6D	6F	43	00	0ABE	
							67	6E	69	73	73	0ACA	
									12			0ABE	
												0AD1	
												0AD1	
												0AD1	
												0AD8	
6C	62	61	74	20	6C	6F	62	6D	79	53	00	0AD8	
							74	72	6F	73	20	0AE4	
									11			0AD8	
												0AEA	
												0AEA	
												0AEA	
												0AEA	
												0AEA	
												0AEA	

DATA STORAGE

06	0AEA	
6C 62 61 74 20 6C 6F 62 6D 79 53 00'	0AF1	299 MAC\$S_IND_SYOUT: .ASCIC /Symbol table output/
74 75 70 74 75 6F 20 65	0AF1	
13	0AF1	
70 6F 6E 79 73 20 74 63 65 73 50 00'	OB05	301 MAC\$S_IND_PSY: .ASCIC /Psect synopsis output/
74 75 70 74 75 6F 20 73 69 73	OB05	
15	OB11	
72 65 66 65 72 2D 73 73 6F 72 43 00'	OB18	303 MAC\$S_IND_CRF: .ASCIC /Cross-reference output/
74 75 70 74 75 6F 20 65 63 6E 65	OB27	
16	OB1B	
72 20 72 65 6C 62 6D 65 73 73 41 00'	OB32	305 MAC\$S_IND_TOT: .ASCIC /Assembler run totals/
73 6C 61 74 6F 74 20 6E 75	OB3E	
14	OB32	
OB47		307 :
OB47		308 : POINTERS TO ABOVE STRINGS AND TIME DATA WORDS FOR STATISTICS OUTPUT
OB47		309 :
OAAF	OB47	310 MACSAW_IND_NAMS::
OABE	OB49	.WORD MAC\$S_IND_INI
OAD1	OB4B	.WORD MAC\$S_IND_CMD
OAD8	OB4D	.WORD MAC\$S_IND_P1
OAEA	OB4F	.WORD MAC\$S_IND_SSORT
OAF1	OB51	.WORD MAC\$S_IND_P2
OB05	OB53	.WORD MAC\$S_IND_SYOUT
OB1B	OB55	.WORD MAC\$S_IND_PSY
OB32	OB57	.WORD MAC\$S_IND_CRF
0000	OB59	.WORD MAC\$S_IND_TOT
OB5B		
OB5B	OB5B	321
0000	OB5B	322 MACSAW_RNT_PTRS::
0000	OB5D	.WORD MAC\$GQ_RNT_INI
0000	OB5F	.WORD MAC\$GQ_RNT_CMD
0000	OB61	.WORD MAC\$GQ_RNT_P1
0000	OB63	.WORD MAC\$GQ_RNT_SRT
0000	OB65	.WORD MAC\$GQ_RNT_P2
0000	OB67	.WORD MAC\$GQ_RNT_SYO
0000	OB69	.WORD MAC\$GQ_RNT_PSY
0000	OB6B	.WORD MAC\$GQ_RNT_CRF
086D		.WORD MAC\$GQ_RNT_TOT
086D	323	
0000	OB6D	324 .WORD MAC\$GQ_RNT_INI
0000	OB6F	.WORD MAC\$GQ_RNT_CMD
0000	OB71	.WORD MAC\$GQ_RNT_P1
0000	OB73	.WORD MAC\$GQ_RNT_SRT
0000	OB75	.WORD MAC\$GQ_RNT_P2
0000	OB77	.WORD MAC\$GQ_RNT_SYO
0000	OB79	.WORD MAC\$GQ_RNT_PSY
0000	OB7B	.WORD MAC\$GQ_RNT_CRF
0000	OB7D	.WORD MAC\$GQ_RNT_TOT
087F		
087F	325	
087F	326	
087F	327	
087F	328	
087F	329	
087F	330	
087F	331	
086D	321	
086D	332	
0000	OB6D	333 MACSAW_TIM_PTRS::
0000	OB6F	.WORD MAC\$GQ_TIM_INI
0000	OB71	.WORD MAC\$GQ_TIM_CMD
0000	OB73	.WORD MAC\$GQ_TIM_P1
0000	OB75	.WORD MAC\$GQ_TIM_SRT
0000	OB77	.WORD MAC\$GQ_TIM_P2
0000	OB79	.WORD MAC\$GQ_TIM_SYO
0000	OB7B	.WORD MAC\$GQ_TIM_PSY
0000	OB7D	.WORD MAC\$GQ_TIM_CRF
087F		.WORD MAC\$GQ_TIM_TOT
087F	334	
087F	343	
087F	344	:
087F	345	: TABLES OF MESSAGE AND TABLE POINTERS FOR USE WITH CROSS-REFERENCE
087F	346	: OUTPUT.

DATA STORAGE

0B7F	347	:	
0B7F	348	:	
0B7F	349	: POINTER TO CREF HEADER MESSAGES (THE ONES SURROUNDED BY BOXES).	
0B7F	350	:	
0B7F	351	MAC\$AL_CRF_TB1::	
00000067'	0B7F	352 .LONG MAC\$AB_CRF_HDR	:SYMBOLS
000001C0'	0B83	353 .LONG MAC\$AB_CRF_HDM	:MACROS
00000321'	0B87	354 .LONG MAC\$AB_CRF_HDO	:OPCODES
000003D1'	0B8B	355 .LONG MAC\$AB_CRF_HDD	:DIRECTIVES
0000046D'	0B8F	356 .LONG MAC\$AB_CRF_HDG	:REGISTERS
	0B93	357 :	
	0B93	358 MAC\$AL_CRF_TB1A::	
0000007B'	0B93	359 .LONG MAC\$AB_CRF_HDRA	:SYMBOLS
000001D4'	0B97	360 .LONG MAC\$AB_CRF_HDMA	:MACROS
00000335'	0B98	361 .LONG MAC\$AB_CRF_HDOA	:OPCODES
000003E5'	0B9F	362 .LONG MAC\$AB_CRF_HDDA	:DIRECTIVES
00000481'	0BA3	363 .LONG MAC\$AB_CRF_HDGA	:REGISTERS
	0BA7	364 :	
000000A4'	0BA7	365 MAC\$AL_CRF_TB1B::	
000001FD'	0BAB	366 .LONG MAC\$AB_CRF_HDRB	:SYMBOLS
0000035E'	0BAF	367 .LONG MAC\$AB_CRF_HDMB	:MACROS
00000412'	0BB3	368 .LONG MAC\$AB_CRF_HDOB	:OPCODES
000004AC'	0BB7	369 .LONG MAC\$AB_CRF_HDDB	:DIRECTIVES
	0BBB	370 .LONG MAC\$AB_CRF_HDGB	:REGISTERS
	0BBB	371 :	
	0BBB	372 :	
	0BBB	373 : POINTER TO CREF SECONDARY HEADER MESSAGES (NAME, VALUE, REFERENCES...)	:++
	0BBB	374 :	
	0BBB	375 MAC\$AL_CRF_TB2::	
000000B8'	0BBB	376 .LONG MAC\$AB_CRF_HD1	:SYMBOLS
00000211'	0BBF	377 .LONG MAC\$AB_CRF_HD2	:MACROS
00000372'	0BC3	378 .LONG MAC\$AB_CRF_HD3	:OPCODES
00000426'	0BC7	379 .LONG MAC\$AB_CRF_HD4	:DIRECTIVES
000004C0'	0BCB	380 .LONG MAC\$AB_CRF_HD5	:REGISTERS
	0BCF	381 :	--
00000102'	0BCF	382 MAC\$AL_CRF_TB2A::	
0000025C'	0BD3	383 .LONG MAC\$AB_CRF_HD1A	:SYMBOLS
000003A7'	0BD7	384 .LONG MAC\$AB_CRF_HD2A	:MACROS
00000450'	0BDB	385 .LONG MAC\$AB_CRF_HD3A	:OPCODES
00000501'	0BDF	386 .LONG MAC\$AB_CRF_HD4A	:DIRECTIVES
	0BE3	387 .LONG MAC\$AB_CRF_HD5A	:REGISTERS
	0BE3	388 :	PSC
	0BE3	389 : POINTER TO CREF SECONDARY HEADER MESSAGES (NAME, VALUE, REFERENCES...)	PSC
	0BE3	390 : FOR WIDE COLUMN LISTINGS	PSC
	0BE3	391 :	PSC
	0BE3	392 MAC\$AL_CRF_TB2W::	PSC
0000013C'	0BE3	393 .LONG MAC\$AB_CRF_HD1W	:SYMBOLS
00000299'	0BE7	394 .LONG MAC\$AB_CRF_HD2W	:MACROS
00000372'	0BE8	395 .LONG MAC\$AB_CRF_HD3	:OPCODES
00000426'	0BEF	396 .LONG MAC\$AB_CRF_HD4	:DIRECTIVES
000004C0'	0BF3	397 .LONG MAC\$AB_CRF_HD5	:REGISTERS
	0BF7	398 :	--
00000186'	0BF7	399 MAC\$AL_CRF_TB2WA::	
000002E4'	0BFB	400 .LONG MAC\$AB_CRF_HD1WA	:SYMBOLS
000003A7'	0BFF	401 .LONG MAC\$AB_CRF_HD2WA	:MACROS
00000450'	0C03	402 .LONG MAC\$AB_CRF_HD3A	:OPCODES
	403 .LONG MAC\$AB_CRF_HD4A	:DIRECTIVES	

DATA STORAGE

```

00000501' 0C07 404 .LONG MAC$AB_CRF_HD5A ;REGISTERS
0C08 405 :
0C08 406 : POINTERS TO CREF CONTROL BLOCKS
0C0B 407 :
0C0B 408 MAC$AL_CRF_TB3:: SPS
00000000' 0C08 409 .LONG MAC$AL_CRF_SYCTB ;SYMBOLS SPS
00000000' 0C0F 410 .LONG MAC$AL_CRF_MCTB ;MACROS SPS
00000000' 0C13 411 .LONG MAC$AL_CRF_OPCNTB ;OPCODES SPS
00000000' 0C17 412 .LONG MAC$AL_CRF_DRCTB ;DIRECTIVES SPS
00000000' 0C1B 413 .LONG MAC$AL_CRF_RGCTB ;REGISTERS SPS
0C1F 414 :
0C1F 415 : DEFS_REFS OR VALS_REFS INDICATOR FOR EACH CREF SPS
0C1F 416 :
0C1F 417 MAC$AB_CRF_TB4:: SPS
00' 0C1F 418 .BYTE CRFSK_DEFS_REFS ;SYMBOLS SPS
00' 0C20 419 .BYTE CRFSK_DEFS_REFS ;MACROS SPS
00' 0C21 420 .BYTE CRFSK_VALS_REFS ;OPCODES SPS
00' 0C22 421 .BYTE CRFSK_VALS_REFS ;DIRECTIVES SPS
00' 0C23 422 .BYTE CRFSK_VALS_REFS ;REGISTERS SPS
0C24 423 :
0C24 424 : TABLE OF COUNTERS OF # OF CREFS IN EACH CREF SPS
0C24 425 :
0C24 426 MAC$AL_CRF_TB5:: PSC
00000000' 0C24 427 .LONG MAC$GL_CRF_CNT ;SYMBOLS PSC
00000000' 0C28 428 .LONG MAC$GL_CRF_MCNT ;MACROS PSC
00000000' 0C2C 429 .LONG MAC$GL_CRF_OCNT ;OPCODES PSC
00000000' 0C30 430 .LONG MAC$GL_CRF_DCNT ;DIRECTIVES PSC
00000000' 0C34 431 .LONG MAC$GL_CRF_RCNT ;REGISTERS PSC
00000000 0C38 432 .LONG 0 ;ALL DONE PSC
0C3C 433 :
0C3C 434 : FINALLY, THE BIT NUMBERS TO CHECK IN CRF_FLG PSC
0C3C 435 :
0C3C 436 MAC$AB_CRF_TB6:: PSC
04 0C3C 437 .BYTE CRFSV_SYMBOLS ;SYMBOLS PSC
01 0C3D 438 .BYTE CRFSV_MACROS ;MACROS PSC
02 0C3E 439 .BYTE CRFSV_OPCODES ;OPCODES PSC
00 0C3F 440 .BYTE CRFSV_DIR ;DIRECTIVES PSC
03 0C40 441 .BYTE CRFSV_REGISTERS ;REGISTERS PSC
0C41 442 :
0C41 443 : Bit number to test in control flags word for wide column listing PSC
0C41 444 :
0C41 445 MAC$AL_CRF_TB7:: PSC
0000002A 0C41 446 .LONG FLGSV_SYM2COL ; Symbols PSC
0000002B 0C45 447 .LONG FLGSV_MAC2COL ; Macros PSC
00000000 0C49 448 .LONG 0 ; Opcodes PSC
00000000 0C4D 449 .LONG 0 ; Directives PSC
00000000 0C51 450 .LONG 0 ; Registers PSC
0C55 451 :
0C55 452 : Table of KEY1TABLE entries for narrow column listings PSC
0C55 453 :
0C55 454 MAC$AL_CRF_TB8:: PSC
00000000' 0C55 455 .LONG SYMBOLFIELD ; Symbols PSC
00000000' 0C59 456 .LONG MACROFIELD ; Macros PSC
0C5D 457 :
0C5D 458 : Table of KEY1TABLE entries for wide column listirgs PSC
0C5D 459 :
0C5D 460 MAC$AL_CRF_TB9:: PSC

```

DATA STORAGE

00000000:	OC5D	461
00000000:	OC61	462
	OC65	463
	OC65	464

```
.LONG    SYMBOLFIELD_31      ; Symbols
.LONG    MACROFIELD_31       ; Macros
.END
```

• = 0

INP
INP
INP
INP
INP
INP
INP

INP
INP
INP

. = 0

INP

• + +

$\cdot = 0$

MNB
MNB
MNB
MNB
MNB
MNB
MNB
MNB
MNB
MNB

CRFSK_DEFS_REFS	***** X 01	FLGSM_STOIMF	= 00040000
CRFSK_VALS_REFS	***** X 01	FLGSM_SYM2COL	= 00090400
CRFSM_DEFAULT	= 00000012	FLGSM_TOCFLG	= 00080000
CRFSM_DIR	= 00000001	FLGSM_UPAFLG	= 00000010
CRFSM_MACROS	= 00000002	FLGSM_UPDFIL	= 00000080
CRFSM_OPCODES	= 00000004	FLGSM_UPMARG	= 00000040
CRFSM_REGISTERS	= 00000008	FLGSM_XCRF	= 80000000
CRFSM_SYMBOLS	= 00000010	FLGSV_ALLCHR	= 00000000
CRFSV_DIR	= 00000000	FLGSV_BOL	= 00000001
CRFSV_MACROS	= 00000001	FLGSV_CHKLPND	= 00000014
CRFSV_OPCODES	= 00000002	FLGSV_COMPEXPR	= 00000002
CRFSV_REGISTERS	= 00000003	FLGSV_CONT	= 00000003
CRFSV_SYMBOLS	= 00000004	FLGSV_CRF	= 0000001E
FLGSM_ALLCHR	= 00000001	FLGSV_CRSEEN	= 00000020
FLGSM_BOL	= 00000002	FLGSV_DATTRPT	= 00000004
FLGSM_CHKLPND	= 00100000	FLGSV_DBGOUT	= 0000002E
FLGSM_COMPEXPR	= 00000004	FLGSV_DLIMSTR	= 0000002F
FLGSM_CONT	= 00000008	FLGSV_ENDMCH	= 00000005
FLGSM_CRF	= 40000000	FLGSV_EVALEXPR	= 00000006
FLGSM_CRSEEN	= 00000001	FLGSV_EXPOPT	= 00000007
FLGSM_DATTRPT	= 00000010	FLGSV_EXTERR	= 00000030
FLGSM_DBGOUT	= 00004000	FLGSV_EXTWRN	= 00000031
FLGSM_DLIMSTR	= 00008000	FLGSV_FIRSTLN	= 00000029
FLGSM_ENDMCH	= 00000020	FLGSV_IFSTAT	= 00000017
FLGSM_EVALEXPR	= 00000040	FLGSV_IIF	= 00000016
FLGSM_EXPOPT	= 00000080	FLGSV_INSERT	= 00000008
FLGSM_EXTERR	= 00010000	FLGSV_IRPC	= 0000001D
FLGSM_EXTWRN	= 00020000	FLGSV_LEXOP	= 00000021
FLGSM_FIRSTLN	= 00000200	FLGSV_LSTXST	= 00000009
FLGSM_IFSTAT	= 00800000	FLGSV_MAC2COL	= 00000028
FLGSM_IIF	= 00400000	FLGSV_MACL	= 0000000B
FLGSM_INSERT	= 00000100	FLGSV_MACLTB	= 0000001B
FLGSM_IRPC	= 20000000	FLGSV_MACTXT	= 00000010
FLGSM_LEXOP	= 00000002	FLGSV_MEBLST	= 0000000C
FLGSM_LSTXST	= 00000200	FLGSV_MOREARG	= 0000002D
FLGSM_MAC2COL	= 00000800	FLGSV_MOREINP	= 00000023
FLGSM_MACL	= 00000800	FLGSV_NEWPND	= 0000000A
FLGSM_MACLTB	= 08000000	FLGSV_NOREF	= 00000018
FLGSM_MACTXT	= 00010000	FLGSV_NTYPEDPC	= 00000025
FLGSM_MEBLST	= 00001000	FLGSV_NULCHR	= 00000032
FLGSM_MOREARG	= 00002000	FLGSV_OBJXST	= 00000015
FLGSM_MOREINP	= 00000008	FLGSV_OPNDCHK	= 00000028
FLGSM_NEWPND	= 00000400	FLGSV_OPRND	= 0000000D
FLGSM_NOREF	= 01000000	FLGSV_OPTVFLIDX	= 0000002C
FLGSM_NTYPEDPC	= 00000020	FLGSV_ORDLST	= 00000011
FLGSM_NULCHR	= 00040000	FLGSV_P2	= 0000000E
FLGSM_OBJXST	= 00200000	FLGSV_RPTIRP	= 0000001C
FLGSM_OPNDCHK	= 00000100	FLGSV_SEQFIL	= 00000019
FLGSM_OPRND	= 00002000	FLGSV_SKAN	= 0000000F
FLGSM_OPTVFLIDX	= 00001000	FLGSV_SPECOP	= 00000022
FLGSM_ORDLST	= 00020000	FLGSV_SPLALL	= 0000001A
FLGSM_P2	= 00004000	FLGSV_STOIMF	= 00000012
FLGSM_RPTIRP	= 10000000	FLGSV_SYM2COL	= 0000002A
FLGSM_SEQFIL	= 02000000	FLGSV_TOCFLG	= 00000013
FLGSM_SKAN	= 00008000	FLGSV_UPAFLG	= 00000024
FLGSM_SPECOP	= 00000004	FLGSV_UPDFIL	= 00000027
FLGSM_SPLALL	= 04000000	FLGSV_UPMARG	= 00000026

MACSDATA1
Symbol table

FLGSV_XCRF	= 0000001F		MAC\$AB_PSC_HDRB	0000077E	RG	01
MAC\$AB_CMD_FA0	00000AA4	RG	MAC\$AB_PSS_FA0	00000845	RG	01
MAC\$AB_CRF_HD1	000000B8	RG	MAC\$AB_PSS_MSG	0000073A	RG	01
MAC\$AB_CRF_HD1A	00000102	RG	MAC\$AB_RNT_MSG	0000003B	RG	01
MAC\$AB_CRF_HD1W	0000013C	RG	MAC\$AB_RUN_HDR	0000057E	RG	01
MAC\$AB_CRF_HD1WA	00000186	RG	MAC\$AB_RUN_HDRA	000005C2	RG	01
MAC\$AB_CRF_HD2	00000211	RG	MAC\$AB_STB_MSG	0000002E	RG	01
MAC\$AB_CRF_HD2A	0000025C	RG	MAC\$AB_SYP_FA0	0000099C	RG	01
MAC\$AB_CRF_HD2W	00000299	RG	MAC\$AB_TOC_MSG	0000001C	RG	01
MAC\$AB_CRF_HD2WA	000002E4	RG	MAC\$AB_VERSION	00000007	RG	01
MAC\$AB_CRF_HD3	00000372	RG	MAC\$AB_WAS_MSG	00000873	RG	01
MAC\$AB_CRF_HD3A	000003A7	RG	MAC\$AB_WERE_MG	00000877	RG	01
MAC\$AB_CRF_HD4	00000426	RG	MAC\$AB_WSL_FA0	00000914	RG	01
MAC\$AB_CRF_HD4A	00000450	RG	MAC\$AL_CRFDRCTB	*****	X	01
MAC\$AB_CRF_HD5	000004C0	RG	MAC\$AL_CRFMCCCTB	*****	X	01
MAC\$AB_CRF_HD5A	00000501	RG	MAC\$AL_CRFOPCTB	*****	X	01
MAC\$AB_CRF_HDD	000003D1	RG	MAC\$AL_CRFRGCTB	*****	X	01
MAC\$AB_CRF_HDDA	000003E5	RG	MAC\$AL_CRFSYCTB	*****	X	01
MAC\$AB_CRF_HDDB	00000412	RG	MAC\$AL_CRF_TB1	0000087F	RG	01
MAC\$AB_CRF_HDG	0000046D	RG	MAC\$AL_CRF_TB1A	00000893	RG	01
MAC\$AB_CRF_HDGA	00000481	RG	MAC\$AL_CRF_TB1B	000008A7	RG	01
MAC\$AB_CRF_HDGB	000004AC	RG	MAC\$AL_CRF_TB2	000008BB	RG	01
MAC\$AB_CRF_HDM	000001C0	RG	MAC\$AL_CRF_TB2A	000008CF	RG	01
MAC\$AB_CRF_HDMA	000001D4	RG	MAC\$AL_CRF_TB2W	000008E3	RG	01
MAC\$AB_CRF_HDMB	000001FD	RG	MAC\$AL_CRF_TB2WA	00000BF7	RG	01
MAC\$AB_CRF_HDO	00000321	RG	MAC\$AL_CRF_TB3	00000C0B	RG	01
MAC\$AB_CRF_HDOA	00000335	RG	MAC\$AL_CRF_TB5	00000C24	RG	01
MAC\$AB_CRF_HD0B	0000035E	RG	MAC\$AL_CRF_TB7	00000C41	RG	01
MAC\$AB_CRF_HDR	00000067	RG	MAC\$AL_CRF_TB8	00000C55	RG	01
MAC\$AB_CRF_HDRA	0000007B	RG	MAC\$AL_CRF_TB9	00000C5D	RG	01
MAC\$AB_CRF_HDRB	000000A4	RG	MAC\$AW_IND_NAMS	00000847	RG	01
MAC\$AB_CRF_MSG	00000057	RG	MAC\$AW_RNT_PTRS	0000085B	RG	01
MAC\$AB_CRF_TB4	00000C1F	RG	MAC\$AW_TIM_PTRS	0000086D	RG	01
MAC\$AB_CRF_TB6	00000C3C	RG	MAC\$GL_CRF_CNT	*****	X	01
MAC\$AB_DEF_TITL	00000000	RG	MAC\$GL_CRF_DCNT	*****	X	01
MAC\$AB_ERRM	000008BB	RG	MAC\$GL_CRF_MCNT	*****	X	01
MAC\$AB_FA0_TIM	00000706	RG	MAC\$GL_CRF_OCNT	*****	X	01
MAC\$AB_IFP_FA0	00000940	RG	MAC\$GL_CRF_RCNT	*****	X	01
MAC\$AB_IND_HDR	0000052D	RG	MAC\$GQ_RNT_CMD	*****	X	01
MAC\$AB_IND_HDRA	00000541	RG	MAC\$GQ_RNT_CRF	*****	X	01
MAC\$AB_IND_HDRB	0000056A	PG	MAC\$GQ_RNT_INI	*****	X	01
MAC\$AB_LPG_FMT	00000822	RG	MAC\$GQ_RNT_P1	*****	X	01
MAC\$AB_MCD_FA0	00000A5E	RG	MAC\$GQ_RNT_P2	*****	X	01
MAC\$AB_MLB_FA0	00000699	RG	MAC\$GQ_RNT_PSY	*****	X	01
MAC\$AB_MLB_HD2	00000647	RG	MAC\$GQ_RNT_SRT	*****	X	01
MAC\$AB_MLB_HD2A	0000067B	RG	MAC\$GQ_RNT_SYO	*****	X	01
MAC\$AB_MLB_HDR	000005F4	RG	MAC\$GQ_RNT_TOT	*****	X	01
MAC\$AB_MLB_HDRA	00000608	RG	MAC\$GQ_TIM_CMD	*****	X	01
MAC\$AB_MLB_HDRB	00000633	RG	MAC\$GQ_TIM_CRF	*****	X	01
MAC\$AB_MLB_SUM	000006D1	RG	MAC\$GQ_TIM_INI	*****	X	01
MAC\$AB_MLB_TOT	000006B3	RG	MAC\$GQ_TIM_P1	*****	X	01
MAC\$AB_NOERRM	0000087C	RG	MAC\$GQ_TIM_P2	*****	X	01
MAC\$AB_OBSR_FA0	00000A06	RG	MAC\$GQ_TIM_PSY	*****	X	01
MAC\$AB_PSC_HD2	00000792	RG	MAC\$GQ_TIM_SRT	*****	X	01
MAC\$AB_PSC_HD2A	000007E4	RG	MAC\$GQ_TIM_SYO	*****	X	01
MAC\$AB_PSC_HDR	00000749	RG	MAC\$GQ_TIM_TOT	*****	X	01
MAC\$AB_PSC_HDRA	0000075D	RG	MAC\$S_IND_CMD	00000ABE	R	01

MACSDATA1 Symbol table

MACSS_IND_CRF	00000B18	R	01
MACSS_IND_INI	00000AAF	R	01
MACSS_IND_P1	00000AD1	R	01
MACSS_IND_P2	00000AEA	R	01
MACSS_IND_PSY	0C000B05	R	01
MACSS_IND_SSORT	00000ADB	R	01
MACSS_IND_SYOUT	00000AF1	R	01
MACSS_IND_TOT	00000B32	R	01
MACROFIELD	*****	X	01
MACROFIELD_31	*****	X	01
OPFSM_LASTOPR	= 00002000		
OPFSM_OPTEXP	= 00001000		
OPFSV_LASTOPR	= 0000000D		
OPFSV_OPTEXP	= 0000000C		
SYMBOLFIELD	*****	X	01
SYMBOLFIELD_31	*****	X	01
X1	= 00000033		
X2	= 00080000		

! Psect synopsis !

PSET name

ABS
MACSRO DATA

<u>Allocation</u>	<u>PSECT No.</u>	<u>Attributes</u>
00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
00000C65 (3173.)	01 (1.)	NOPIC USB CON REI GBL NOSHR NOEXE RD NOWRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.07	00:00:03.80
Command processing	154	00:00:00.44	00:00:04.74
Pass 1	160	00:00:01.46	00:00:06.13
Symbol table sort	0	00:00:00.21	00:00:00.50
Pass 2	123	00:00:00.99	00:00:03.62
Symbol table output	29	00:00:00.13	00:00:00.36
Psect synopsis output	1	00:00:00.01	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	504	00:00:03.32	00:00:19.18

The working set limit was 1050 pages.
21942 bytes (43 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 246 non-local and 0 local symbols.
464 source lines were read in Pass 1, producing 27 object records in Pass 2.
1 page of virtual memory was used to define 1 macro.

-----+
! Macro library statistics !
-----+

Macro library name

-\$255\$DUA28:[MACRO.OBJ]MACRO.MLB;1
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

Macros defined

2
0
2

88 GETS were required to define 2 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:DATA1/OBJ=OBJ\$:DATA1 MSRC\$:DATA1/UPDATE=(ENH\$:DATA1)+LIB\$:MACRO/LIB

.=0
MLF
MLF
MLF
MLF
MLF

0225 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

